IN THE SPECIFICATION:

Please AMEND the paragraph starting on page 36, line 23, as follows:

FIG. 64(a) to ~~64(e)~~64(d) are diagram each for explaining an operation of the module frequency extracting unit as the second modification of the adaptive-type band limiting differentiating unit of the present embodiment;

Please AMEND the paragraph starting on page 96, line 17, as follows:

The frequency decimating unit (decimating unit) 11h is a unit for carrying out frequency-decimation on the analyzed data T constituting the result of frequency spectrum analysis supplied from the FFT processing unit 11c and obtaining approximated characteristic data Z [see results of decimation z0, z1, z2, ..., z32 in FIG. ~~64(e)~~64(d)]. As for example shown in FIG. 64(d), the frequency decimating unit 11h decimates the 1024 frequency spectrum points at an interval of 32 points, for example, and supplies the decimation result Z to the squaring error calculating unit 11i. In this way, it becomes possible to obtain spectrum data (analyzed data left after the decimation) of every frequency interval (312.5kHz) deriving from 32-division of the sampling frequency 10MHz.

Please AMEND the paragraph starting on page 97, line 3, as follows:

In the case of FIG. ~~64(e)~~64(d), the analyzed data y0, y1, y2, ..., y1024 as the result Y of FFT are subjected to the frequency decimation. Thus, data piece correspondence is determined in such a manner that data piece y0 corresponds to z0 after the decimation, y32 to z1, y64 to z2, y96 to z3. In the similar manner, z32 is determined (from y1024).